NOPP Year 2 Statement of Work (USM)

Objective

Provide in-situ measurements and associated data processing of multispectral and hyperspectral remote sensing reflectance and inherent optical qualities of the water column

NOPP Year 2 Statement of Work (USM)

Expand the in situ measurement suite from that used in Year 1, conditional on funding, to accommodate additional variables:

- Provide measurements of dissolved and particulate absorption and scattering (improve in-line filtering procedures);
- Replace ECO VSF3 with ECO BB9 to increase the number of wavelengths for the backscattering measurement;
- Add particle size distribution information to measurement suite (LISST-100, requires vessel equipped to handle larger profiling cage)
- Collect and analyze water samples for photosynthetic pigments and colored dissolved organic matter (requires adequate facilities either on board ship or at a shore laboratory);
- Hyperspectral water leaving radiance and radiance reflectance (HyperSAS, will require adequate mounting capabilities on board the vessel);

NOPP Year 2 Statement of Work (USM)

Deliverables

- Availability of DMS Optical Laboratory calibrated equipment for in-situ measurement
- Research staff support for in-situ optical measurements and data processing during field collections
- Delivery of completed quarterly status reports.
- Delivery of a completed project research report following the completion of the FY2007 research period